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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/520,850	01/11/2005	John L. Glasper	124-1101	2666	
23117	7590 09/28/20	6	EXAMINER		
NIXON & VANDERHYE, PC 901 NORTH GLEBE ROAD, 11TH FLOOR			KO, TONY		
	GLEBE ROAD, 111 N. VA 22203	A FLOOR	ART UNIT	PAPER NUMBER	
	,		2878		
			DATE MAILED: 09/28/200	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		10/520,850	GLASPER ET AL	<u>-</u> .	
		Examiner	Art Unit		
		Tony Ko	2878		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sh	eet with the correspondence a	ddress	
A SH WHIC - Exter after - If NC - Failu Any I	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMN 36(a). In no event, however, vill apply and will expire SIX (cause the application to bec	MUNICATION. may a reply be timely filed 6) MONTHS from the mailing date of this come ABANDONED (35 U.S.C. § 133).		
Status				•	
1)	Responsive to communication(s) filed on This action is FINAL. 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for forma	• •	e merits is	
Dispositi	on of Claims				
5) □ 6) ⊠ 7) ⊠ 8) □ Applicati	Claim(s) 1-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-3 and 12-14 is/are rejected. Claim(s) 4-11 and 15-24 is/are objected to. Claim(s) are subject to restriction and/or ion Papers The specification is objected to by the Examine The drawing(s) filed on 11 January 2005 is/are:	vn from consideration requirements.	nt.	ner.	
11)□	Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Ex	ion is required if the dr	awing(s) is objected to. See 37 C		
Priority ι	ınder 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
2) 🔲 Notic 3) 🔯 Infor	t(s) se of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) smation Disclosure Statement(s) (PTO/SB/08) sr No(s)/Mail Date 1/11/05, 4/06/05.	Pap 5) 🔲 Not	rview Summary (PTO-413) er No(s)/Mail Date ice of Informal Patent Application er:		

Application/Control Number: 10/520,850 Page 2

Art Unit: 2878

DETAILED ACTION

Claim Objections

1. Claims 4-11, 15-24 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim can not be dependent on multiple dependent claims. See MPEP § 608.01(n). Accordingly, the claims have not been further treated on the merits.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-3 and 12-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Applicant Admitted Prior Art.
- 3. Regarding claims 1 and 12, AAPA discloses (Fig. 1) method of making and the apparatus of a photodetector circuit including a photodiode, the circuit comprising a semiconductor substrate (2), a first electrically insulating layer (4) on the substrate, a first window in the first insulating layer, a guard ring (8) in the substrate within the first window (6), a second electrically insulating layer (10), on the first insulating layer, a second window in the second insulating layer within the first window (the opening

Art Unit: 2878

between insulating layers 4), and an epitaxial layer (12) on the substrate forming an active region of the photodiode, the epitaxial layer being located within the second window (gap between layers 10) such that the edges of the epitaxial layer are spaced from the inner periphery of the first window.

- 4. Regarding claims 2 and 13, AAPA discloses the window is such that the guard ring is overlapped by the edges of the epitaxial layer.
- 5. Regarding claim 3 and 14, AAPA discloses (Fig. 1) the second window (the gap between 10 is between the gap created by layer 4) is formed in the second insulating layer so as to leave a portion of the second insulating layer with the inner periphery of the first window which ensures, during growth of the epitaxial layer, that the edges of the epitaxial layer are spaced from the inner periphery of the first window.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tony Ko whose telephone number is 571-272-1926.

The examiner can normally be reached on Monday-Friday 7:30 - 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Epps can be reached on 571-272-2328. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/520,850

Art Unit: 2878

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TKO

THANH X. LUU PRIMARY EXAMINER

Page 4